IN THE UNITED STATES DISTRICT COURT FOR THE WESTERN DISTRICT OF MISSOURI WESTERN DIVISION

UNITED STATES OF AMERICA,)
Plaintiff,)
V.) Criminal Action No.) 09-00141-01/02-CR-W-HFS
AMIR A. SHAH,)
OSMAAN A. SHAH,)
)
Defendants.)

ORDER

It has been represented to the Court that counsel for the government and defendants

Amir A. Shah and Osmann A. Shah have agreed upon a condition of pretrial release to restrict
the use of computers and internet access by the defendants. Accordingly and for good cause
appearing, it is

ORDERED that the conditions of pretrial release for defendant Amir A. Shah and Osmann A. Shah are amended to require that each defendant not possess or use any computer nor shall they direct anyone to use a computer on their behalf.

/s/ JOHN T. MAUGHMER

John T. Maughmer United States Magistrate Judge

,		Application	ı No.	pplicant(s)	
Office Action Summary	09/651,790)	BALUSWAMY ET AL.		
	Examiner		Art Unit		
		Pizarro-Crespo	2814		
The MAILING Period for Reply	DATE of this communication	appears on the	cover sheet with the	correspondence a	ddress
THE MAILING DAT - Extensions of time may be after SIX (6) MONTHS from the period for reply specified by the second for reply is significant to reply within the Any reply received by the	ATUTORY PERIOD FOR RELEASE OF THIS COMMUNICATION is available under the provisions of 37 CFR orm the mailing date of this communication. Cified above is less than thirty (30) days, a pecified above, the maximum statutory per set or extended period for reply will, by state of the communication of the co	N. R 1 136(a) In no even reply within the statute riod will apply and will atute, cause the applic	t, however, may a reply be ory minimum of thirty (30) d expire SIX (6) MONTHS fro ation to become ABANDON	timely filed ays will be considered time on the mailing date of this of VED (35 U.S.C. § 133).	dy. communication
1) Responsive	to communication(s) filed on 1	12 February 200	<u>)3</u> .		
2a) This action is	s FINAL. 2b)	This action is n	on-final.		
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 1-21 is/are pending in the application.					
	ve claim(s) <u>1-15</u> is/are withdra	awn from consid	feration.		
5) Claim(s)					
6)⊡ Claim(s) <u>16-2</u>					
	_ is/are objected to.				
8) Claim(s) 1-21 Application Papers	are subject to restriction and/o	or election requ	irement.		
_	on is objected to by the Evami	inor			
<u> </u>	on is objected to by the Exami			L. h. Abo Evansiana	
	filed on <u>12 February 2003</u> is/s not request that any objection to			•	
	drawing correction filed on		-	. ,	
	orrected drawings are required in		•	Toved by the Examin	ei
<u> </u>	claration is objected to by the	, ,	e action.		
Priority under 35 U.S.C	•	Examinor.			
	ent is made of a claim for fore	sian priority und	or 25 I I C C C 110/	(a) (d) as (f)	
	ome * c) None of:	agn priority unde	31 33 0.3.0. 9 119((a)-(u) or (r).	
		anta haya baan	roosiyod		
	d copies of the priority docume			Mara Nila	
	d copies of the priority docume				
appl	of the certified copies of the pr ication from the International I d detailed Office action for a li	Bureau (PCT R	ule 17.2(a)).		Stage
	nt is made of a claim for dome		,		
, :	3. a stant for dolling	The state of the s			
Attachment(s)					
	ted (P*0-892) Patent Crawing Review (PT0-948) Statement's (PT0 1449) Pager 1, 100	5		ry (PTO-413) Paper No Patent Application (PT	

Art Unit: 2814

Attorney's Docket Number: 4307 US (99-1193)

Filing Date: 8/20/2000

Claimed Foreign Priority Date: none

Applicant(s): Baluswamy et al.

Examiner: Marcos D. Pizarro-Crespo

DETAILED ACTION

This Office action responds to the amendment in paper no. 23 filed on 2/12/2003.

Acknowledgment

1. The amendment in paper no. 23, filed on 2/12/2003, in response to the Office action in paper no. 20, mailed on 11/6/2002, has been entered. The present Office action is made with all the suggested amendments being fully considered. Accordingly, pending in this Office action are claims 1-21.

Drawings

2. The corrected or substitute drawings were received on 2/12/2003. These drawings are accepted.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122/6% to another filed in the United Otals (1), for all

The make an effects for purposes of this subsection of an appoint of the analog of each states by a trie international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Page 2

Art Unit: 2814

- 4. Claims 16-19 and 21 are rejected under 35 U.S.C. 102(e) as being anticipated by Ackmann (US 6271602).
- 5. Ackmann shows (see, e.g., figs. 19-23) all aspects of the instant invention including a method to form an overlay target including a series of raised lines, the method comprising:
 - providing a substrate 300
 - depositing a resist layer 320 over the substrate 300
 - patterning the resist layer **320** to include a resist pattern defining the overlay target including the series of raised lines (see, e.g., fig. 20)
 - etching the substrate **10** to form the overlay target including the resist pattern with the series of raised lines (see, *e.g.*, fig. 21)
 - depositing a second layer 322 of material having an upper surface substantially free of depressions in that portion 302 of the second layer covering the overlay target in the substrate 300
- 6. Regarding claim 17, Ackmann shows (col.10/II.54) that the substrate comprises silicon.
- 7. Regarding claim 18, Ackmann deposits the resist layer **320** directly over the semiconductor substrate **300** (see, *e.g.*, fig. 19).
- 8. Regarding claim 19, Ackmann shows the substrate **300** including a top surface and a bottom surface, and a material layer **306** deposited over the top our face.

Art Unit: 2814

9. Regarding claim 21, Ackmann shows (see, *e.g.*, col.12/II.31, col.13/II.12-14) that the substrate etching-step may comprise a step of wet etching the substrate **300** to form the overlay target.

Claim Rejections - 35 USC § 103

- 10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 11. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 12. Claims 16, 19, and 20, are rejected under 35 U.S.C. 102(b) as being anticipated by Kinoshita (JP 58-90728) in view of Ackmann.
- 13. Kinoshita shows (see. e.g., fig. 3) most aspects of the instant invention including

Art Unit: 2814

- providing a substrate 1
- depositing a resist layer 26 over the substrate 1
- patterning the resist layer **26** to include a resist pattern defining the overlay target including a series of raised lines (see, e.g., fig. 3C)
- etching the substrate 1 to form the overlay target including the resist pattern with the series of raised lines (see, e.g., fig. 3E)

Kinoshita, however, fails to show a step of depositing a second layer of material, wherein the second layer has an upper surface that is substantially free of depressions in that portion of the layer that covers the overlay target.

Ackmann (col.3/II.1-12), on the other hand, teaches that, when manufacturing alignment marks (*i.e.*, overlay targets), it is conventional to deposit a layer covering the mark such that its upper surface is substantially free of depressions.

Consequently, it would have been obvious at the time of the invention to one of ordinary skill in the art to include a step of depositing a second layer over Kinoshita's overlay target such that the upper surface of the layer is substantially free of depressions in that portion that covers the overlay target, as suggested by Ackmann, since such a step is conventionally used during the manufacturing process of overlay targets.

14. Regarding claim 19, Kinoshita shows that a material layer **21** may be deposited over the top surface of the semiconductor substrate **1** (see, e.g., fig. 3B).

Page 6

Art Unit: 2814

Regarding claim 20, Kinoshita shows that the resist layer 26 may be deposited 15. over the material layer 21 and that the step of etching the substrate 1 comprises etching the material layer **21** (see, e.g., figs. 3C-3E).

Response to Arguments

Applicant's arguments with respect to claims 16-21 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

- Applicant's amendment necessitated the new ground(s) of rejection presented in 16. this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).
- A shortened statutory period for reply to this final action is set to expire THREE 17. MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Fax Center located in Crystal Plaza 4, room 3C23. The faxing of such papers must conform to the notice published in the Official Gazette. 1096 OG 30 (15 November 1989) The Art Unit 2814 Fax Center number is (703) 308-7722 or -7724. The Art Unit 2814 Fax Center is to be used only for papers related to Art Unit 2814 applications

- Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marcos D. Pizarro-Crespo at (703) 308-6558 and between the hours of 9 30 AM to 8 00 PM (Eastern Standard Time) Muriday through Thursday or by e-mail via Marcos Pizarro@uspto.gov If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy, can be reached on (703) 308-4918.
- Any inquiry of a general nature or relating to the status of this application should be directed to the **Group 2800 Receptionist** at **(703) 308-0956**.
- 21. The following list is the Examiner's field of search for the present Office Action:

Field of Search	Date
U.S. Class / Subclass(es) 257 /797 438 /401, 462, 704, 706, 709-711, 719, 745, 783, 975	3/17/2003
Other Documentation	
Electronic Database(s) EAST (USPAT, EPQ, JPO)	3/17/2003

Marcos D. Pizarro-Crespo
Patent Examiner

i simating :